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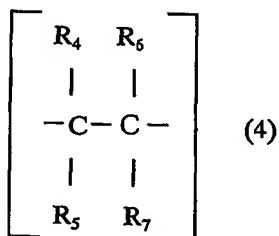
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(54) Title: CATIONIC GRAFT-COPOLYMER FOR NON-VIRAL GENE DELIVERY VECTOR



(57) **Abstract:** A cationic graft-copolymer for a non-viral gene delivery vector comprising a unit derived from a cationic derivative of a water-soluble linear polymers having a hydroxyl groups, namely, a cationic polysaccharide of the following formula (1)  $[C_6H_{10}O_2(OH)_3-a(OX)_a]_x H_2O$  (1) and the cationic derivative of polyvinylalcohol of the following formula (2) or the cationic derivative of the partial hydrolyzed polyvinylalcohol of the following formula (3)  $[CH_2CH(OH)_1-b(OX)_b]_n$  (2)  $[CH_2CH(OH)_1-b-c(OX)_b(OAc)_c]_n$  (3) and a unit derived from a polymerizable olefin compound of the following formula (4)  $R_4R_6||-C-C-(4)||R_5R_7(a, x, b, n, c, Ac, X, R_4, R_5, R_6, and R_7 are defined in claim 1-6); a process for preparing the same and a transfection reagent made therefrom..$

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